DB Name	Query	Hit Count	Set Name
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L4 and (novel IRES)	0	L11
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L9 and L4	3	L10
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(bicistronic or dicistronic or multicistronic) and (IRES)	116	L9
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L4 and (IRES)	7	L8
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L4 same (expression vector)	3	L7
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L4 and (expression vector)	86	L6
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L4 and (DIAV or SNV or CSV)	44	L5
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	(REV-?) or (reticuloendotheliosis virus)	190	L4
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and (REV or (reticuloendotheliosis virus))	0	L3
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	Lastra-marcelo-lopez.in.	0	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	Darlix-jean-luc.in.	6	L1

```
Set      Items    Description
S1         75      (RETICULOENDOTHELIOSIS (W) VIRUS) AND (VECTOR)
S2          4      S1 AND (IRES)
S3          2      RD (unique items)
S4          0      S1 AND REVIEW
S5          0      S1 AND (NOVEL (W) INTERNAL (W) RIBOSOME (W) ENTRY (W) SITE)
S6          2      (NOVEL (W) INTERNAL (W) RIBOSOME (W) ENTRY (W) SITE)
S7          1      RD (unique items)
S8          7      (RETICULOENDOTHELIOSIS (W) VIRUS) AND (IRES)
S9          4      RD (unique items)
?logoff
        21jan02 13:55:28 User259876 Session D309.2
            $1.36    0.425 DialUnits File155
              $0.80  4 Type(s) in Format  3
            $0.80  4 Types
     $2.16  Estimated cost File155
            $1.98    0.353 DialUnits File5
              $1.65  1 Type(s) in Format  3
            $1.65  1 Types
     $3.63  Estimated cost File5
            $5.05    0.594 DialUnits File73
              $4.70  2 Type(s) in Format  3
            $4.70  2 Types
     $9.75  Estimated cost File73
            OneSearch, 3 files,  1.372 DialUnits FileOS
     $0.50  TYMNET
    $16.04  Estimated cost this search
    $16.35  Estimated total session cost   1.459 DialUnits


### Status: Signed Off. (10 minutes)
```

Status: Path 1 of [Dialog Information Services via Modem]

Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 3106900061...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:
 ******** HHHHHHHH SSSSSSSS?
Status: Signing onto Dialog
 ****
ENTER PASSWORD:
 ******** HHHHHHHH SSSSSSSS? ********
Welcome to DIALOG
Status: Connected

Dialog level 01.12.27D

Last logoff: 16jan02 11:10:39
Logon file001 21jan02 13:46:08
              *** ANNOUNCEMENT ***
                     ***
--Connect Time joins DialUnits as pricing
options on Dialog. See HELP CONNECT for
information.
                     ***
--SourceOne patents are now delivered to your
email inbox as PDF replacing TIFF delivery.
See HELP SOURCE1 for more information.
                     ***
--Important news for public and academic
libraries. See HELP LIBRARY for more information.
                     ***
--Important Notice to Freelance Authors--
See HELP FREELANCE for more information
                     ***
NEW FILES RELEASED
***TEME - Technology and Management(File 95)
***NewsRx Weekly Reports (File 135)
***TRADEMARKSCAN-Japan (File 669)
***Financial Times Fulltext (File 476)
                     ***
UPDATING RESUMED
***Delphes European Business (File 481)
                     ***
RELOADED
***CLAIMS/US PATENTS (Files 340, 341, 942)
***Kompass Middle East/Africa/Mediterranean (File 585)
***Kompass Asia/Pacific (File 592)
***Kompass Central/Eastern Europe (File 593)
***Kompass Canada (File 594)
***CANCERLIT (File 159)
***D&B - Dun's Market Identifiers (516)
***Information Science Abstracts (File 202)

New document supplier
IMED has been changed to INFOTRIE (see HELP OINFOTRI)

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   wire. First Release provides full Dialog searchability
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broad spectrum of news wires.

KWIC is set to 50.
HILIGHT set on as '*'
****   ****

File   1:ERIC 1966-2002/Jan 11
       (c) format only 2002 The Dialog Corporation

       Set   Items   Description
       ---   -----   -----------
Cost is in DialUnits
?b 155, 5, 73
       21jan02 13:46:16 User259876 Session D309.1
           $0.30   0.087 DialUnits File1
    $0.30   Estimated cost File1
    $0.01   TYMNET
    $0.31   Estimated cost this search
    $0.31   Estimated total session cost   0.087 DialUnits

SYSTEM:OS - DIALOG OneSearch
  File 155:MEDLINE(R) 1966-2002/JAN W3
*File 155: File temporarily is not updating. The updating will
resume by the end of January 2002.
  File   5:Biosis Previews(R) 1969-2002/Jan W2
         (c) 2002 BIOSIS
  File 73:EMBASE 1974-2002/Jan W2
         (c) 2002 Elsevier Science B.V.
*File 73: For information about Explode feature please
see Help News73.

       Set   Items   Description
       ---   -----   -----------
?s (Reticuloendotheliosis (w) virus) and (vector)
           4631   RETICULOENDOTHELIOSIS
        1079309   VIRUS
           1100   RETICULOENDOTHELIOSIS(W)VIRUS
         179042   VECTOR
      S1   75   (RETICULOENDOTHELIOSIS (W) VIRUS) AND (VECTOR)
?s s1 and (IRES)
             75   S1
           1884   IRES
      S2   4   S1 AND (IRES)
?rd
...completed examining records
      S3   2   RD (unique items)
?t s3/3,k/all

 3/3,K/1   (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10809035   99412355   PMID: 10482590
  Identification of an internal ribosome entry segment in the 5' region of
the mouse VL30 retrotransposon and its use in the development of retroviral
vectors.
  Lopez-Lastra M; Ulrici S; Gabus C; Darlix JL
  Labo Retro, Unite de Virologie Humaine-U412, Institut National de la
Sante et de la Recherche Medicale, Ecole Normale Superieure de Lyon, 69364
Lyon cedex 07, France.
  Journal of virology (UNITED STATES)   Oct 1999, 73 (10) p8393-402,
ISSN 0022-538X   Journal Code: KCV
  Languages: ENGLISH

... in cell culture. In this study, we addressed whether the 5' region of VL30m could replace the 5' leader of MoMLV functionally in a recombinant *vector* construct. Our data confirm that the putative packaging sequence of VL30 is located within the 5' region (nucleotides 362 to 1149 with respect to the cap structure) and that it can replace the packaging sequence of MoMLV. We also show that VL30m contains an internal ribosome entry segment (*IRES*) in the 5' region, as do MoMLV, Friend murine leukemia virus, Harvey murine sarcoma virus, and avian *reticuloendotheliosis* *virus* type A. Our data show that both the packaging and *IRES* functions of the 5' region of VL30m RNA can be efficiently used to develop retrotransposon-based vectors.

3/3,K/2   (Item 1 from file: 73)
Characterization of an internal ribosomal entry segment within the 5' leader of avian *reticuloendotheliosis* *virus* type A RNA and development of novel MLV-REV-Based retroviral vectors
Lopez-Lastra M.; Gabus C.; Darlix J.-L.
Dr. J.-L. Darlix, LaboRetro Unite de Virologie Humain, INSERM U412, Ecole Normale Superieure de Lyon, 46 Allee d'Italie, 69364 Lyon Cedex 07 France

Characterization of an internal ribosomal entry segment within the 5' leader of avian *reticuloendotheliosis* *virus* type A RNA and development of novel MLV-REV-Based retroviral vectors

...independent translation of gag precursor proteins. These data, together with structural homology studies, prompted us to undertake a search for new internal ribosome entry segment (*IRES*) of retroviral origin. Here we describe an *IRES* element within the 5' leader of avian *reticuloendotheliosis* *virus* type A (REV-A) genomic RNA. Data show that the REV-A 5' *IRES* element maps downstream of the packaging/dimerization (E/DLS) sequence and the minimal *IRES* sequence appears to be within a 129 nt fragment (nucleotides 452-580) of the 5' leader, immediately upstream of the gag AUG codon. The REV-A *IRES* has been successfully utilized in the construction of novel high titer MLV-based retroviral vectors, containing one or more *IRES* elements of retroviral origin. These retroviral constructs, which represent a starting point for the design of novel vectors suitable for gene therapy, are also of...
MEDICAL DESCRIPTORS:
*murine leukemia virus; *retrovirus; *ribosome; *virus *vector*
?ds

Set	Items	Description
S1	75	(RETICULOENDOTHELIOSIS (W) VIRUS) AND (VECTOR)
S2	4	S1 AND (IRES)
S3	2	RD (unique items)

?s s1 and review

	75	S1
	1199392	REVIEW
S4	0	S1 AND REVIEW

?s s1 and (novel (w) internal (w) ribosome (w) entry (w) site)

	75	S1

```
         493413  NOVEL
         869360  INTERNAL
          46999  RIBOSOME
         129515  ENTRY
         962904  SITE
              2  NOVEL(W)INTERNAL(W)RIBOSOME(W)ENTRY(W)SITE
      S5      0  S1 AND (NOVEL (W) INTERNAL (W) RIBOSOME (W) ENTRY (W)
                 SITE)
?s (novel (w) internal (w) ribosome (w) entry (w) site)
         493413  NOVEL
         869360  INTERNAL
          46999  RIBOSOME
         129515  ENTRY
         962904  SITE
      S6      2  (NOVEL (W) INTERNAL (W) RIBOSOME (W) ENTRY (W) SITE)
?rd
...completed examining records
      S7      1  RD (unique items)
?t s7/3,k/all
```

7/3,K/1   (Item 1 from file: 5)

13137423   BIOSIS NO.: 200100344572
XIAP IRES and uses thereof.
AUTHOR: Korneluk Robert G(a); Holcik Martin; Liston Peter
AUTHOR ADDRESS: (a)Ottawa**Canada
JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1242 (2):pNo Pagination Jan. 9, 2001
MEDIUM: e-file
ISSN: 0098-1133
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The invention features purified nucleic acid encoding a *novel*
   internal *ribosome* *entry* *site* (IRES) sequence from the X-linked
   inhibitor of apoptosis (XIAP) gene. The invention also features methods
   for using the XIAP IRES to increase cap-independent...
?ds

```
Set      Items    Description
S1         75     (RETICULOENDOTHELIOSIS (W) VIRUS) AND (VECTOR)
S2          4     S1 AND (IRES)
S3          2     RD (unique items)
S4          0     S1 AND REVIEW
S5          0     S1 AND (NOVEL (W) INTERNAL (W) RIBOSOME (W) ENTRY (W) SITE)
S6          2     (NOVEL (W) INTERNAL (W) RIBOSOME (W) ENTRY (W) SITE)
S7          1     RD (unique items)
?s (reticuloendotheliosis (w) virus) and (IRES)
          4631    RETICULOENDOTHELIOSIS
        1079309   VIRUS
          1100    RETICULOENDOTHELIOSIS(W)VIRUS
          1884    IRES
      S8      7   (RETICULOENDOTHELIOSIS (W) VIRUS) AND (IRES)
?rd
...completed examining records
      S9      4   RD (unique items)
?t s9/3,k/all
```

9/3,K/1   (Item 1 from file: 155)

10908635   20541956   PMID: 11090156
Rous sarcoma virus translation revisited: characterization of an internal

ribosome entry segment in the 5' leader of the genomic RNA.

    Deffaud C; Darlix JL
    LaboRetro, Unite de Virologie Humaine, Institut National de la Sante et de la Recherche Medicale, Ecole Normale Superieure de Lyon, 69364 Lyon Cedex 07, France.

... leader upstream of the Gag start codon. Translation of RSV Gag would thus differ from that prevailing in other retroviruses such as murine leukemia virus, *reticuloendotheliosis* *virus* type A, and simian immunodeficiency virus, in which an internal ribosome entry segment (*IRES*) in the 5' end of the genomic RNA directs efficient Gag expression despite stable 5' secondary structures. This prompted us to investigate whether RSV Gag translation might be controlled by an *IRES*-dependent mechanism. The results show that the 5' leaders of RSV and v-Src RNA exhibit *IRES* properties, since these viral elements can promote efficient translation of monocistronic RNAs in conditions inhibiting 5' cap-dependent translation. When inserted between two cistrons in...

... promote expression of the 3' cistron. A genetic analysis of the RSV leader allowed the identification of two nonoverlapping 5' and 3' leader domains with *IRES* activity. In addition, the v-Src leader was found to contain unique 3' sequences promoting an efficient reinitiation of translation. Taken together, these data lead...

9/3,K/2   (Item 2 from file: 155)

10809035   99412355   PMID: 10482590
    Identification of an internal ribosome entry segment in the 5' region of the mouse VL30 retrotransposon and its use in the development of retroviral vectors.
    Lopez-Lastra M; Ulrici S; Gabus C; Darlix JL
    Labo Retro, Unite de Virologie Humaine-U412, Institut National de la Sante et de la Recherche Medicale, Ecole Normale Superieure de Lyon, 69364 Lyon cedex 07, France.

... to the cap structure) and that it can replace the packaging sequence of MoMLV. We also show that VL30m contains an internal ribosome entry segment (*IRES*) in the 5' region, as do MoMLV, Friend murine leukemia virus, Harvey murine sarcoma virus, and avian *reticuloendotheliosis* *virus* type A. Our data show that both the packaging and *IRES* functions of the 5' region of VL30m RNA can be efficiently used to develop retrotransposon-based vectors.

9/3,K/3   (Item 3 from file: 155)

10295822   98043300   PMID: 9382952
    Characterization of an internal ribosomal entry segment within the 5' leader of avian *reticuloendotheliosis* *virus* type A RNA and development of novel MLV-REV-based retroviral vectors.
    Lopez-Lastra M; Gabus C; Darlix JL
    LaboRetro, Unite de Virologie Humaine INSERM U412, Ecole Normale Superieure de Lyon, France.

Characterization of an internal ribosomal entry segment within the 5' leader of avian *reticuloendotheliosis* *virus* type A RNA and development of novel MLV-REV-based retroviral vectors.

... al., 1995b). These data, together with structural homology studies (Koning et al., 1992), prompted us to undertake a search for new internal ribosome entry segment (*IRES*) of retroviral origin. Here we describe an *IRES* element within the 5' leader of avian *reticuloendotheliosis* *virus* type A (REV-A) genomic RNA. Data show that the REV-A 5' *IRES* element maps downstream of the packaging/dimerization (E/DLS) sequence (Watanabe and Temin, 1982; Darlix et al., 1992) and the minimal *IRES* sequence appears to be within a 129 nt fragment (nucleotides 452-580) of the 5' leader, immediately upstream of the gag AUG codon. The REV-A *IRES* has been successfully utilized in the construction of novel high titer MLV-based retroviral vectors, containing one or more *IRES* elements of retroviral origin. These retroviral constructs, which represent a starting point for the design of novel vectors suitable for gene therapy, are also of...

Descriptors: Genetic Vectors--genetics--GE; *Leukemia Viruses, Murine--genetics--GE; *RNA, Viral--genetics--GE; **Reticuloendotheliosis* *Virus*, Avian--genetics--GE; *Transfection; *Translation, Genetic

---

9/3,K/4   (Item 1 from file: 73)

11093228   EMBASE No: 2001106802

Rous sarcoma virus translation revisited: Characterization of an internal ribosome entry segment in the 5prime leader of the genomic RNA

Deffaud C.; Darlix J.-L.
J.-L. Darlix, Unite Virologie Humaine, 412, Inst. Natl. Sante Rech. Med., Ecole Normale Superieure Lyon, 46 Allee d' Italie, 69364 Lyon Cedex 07 France
AUTHOR EMAIL: Jean-Luc.Darlix@ens-lyon.fr

...leader upstream of the Gag start codon. Translation of RSV Gag would thus differ from that prevailing in other retroviruses such as murine leukemia virus, *reticuloendotheliosis* *virus* type A, and simian immunodeficiency virus, in which an internal ribosome entry segment (*IRES*) in the 5prime end of the genomic RNA directs efficient Gag expression despite stable 5prime secondary structures. This prompted us to investigate whether RSV Gag translation might be controlled by an *IRES*-dependent mechanism. The results show that the 5prime leaders of RSV and v-Src RNA exhibit *IRES* properties, since these viral elements can promote efficient translation of monocistronic RNAs in conditions inhibiting 5prime cap-dependent translation. When inserted between two cistrons in...

...promote expression of the 3prime cistron. A genetic analysis of the RSV leader allowed the identification of two nonoverlapping 5prime and 3prime leader domains with *IRES* activity. In addition, the v-Src leader was found to contain unique 3prime sequences promoting an efficient reinitiation of translation. Taken together, these data lead...

?ds